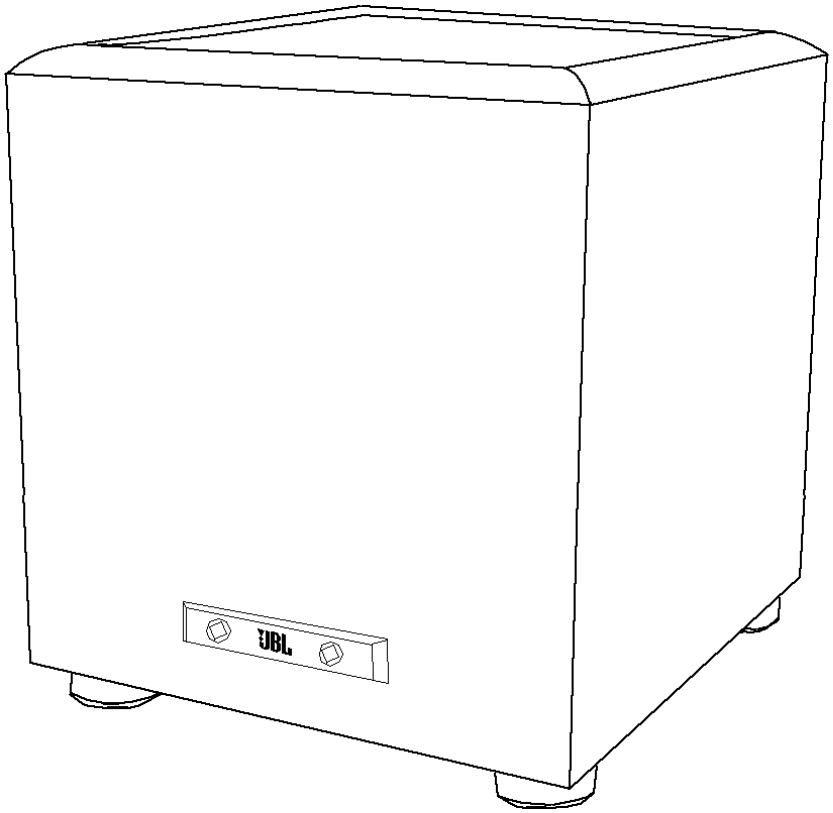
PowerBass™ Series

PB12 Subwoofer

PRELIMINARY SERVICE MANUAL



JBL Incorporated, Inc.
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Woodbury, New York 11797

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GENERAL SPECIFICATIONS PB12 Subwoofer

Output Power	250 watts RMS
Driver	12" Woofer
Frequency Response	25Hz – to Low Pass Frequency setting
Inputs	Line Level (option: LFE); Speaker Level
Outputs	Speaker level fixed frequency 150Hz
Low-Pass Frequency	Variable from 50Hz – 150Hz
High-Pass Frequency	150Hz when using Speaker Level Output
Dimensions (H x W x D)	15 1/2" x 15" x 16" 394mm x 381mm x 406mm (with feet) 17 1/2" x 15" x 16" 445mm x 381mm x 406mm
Weight	40 lb/18.2kg

Refinements may be made on occasion to existing products without notice but will always meet or exceed original specifications unless otherwise stated.
PowerBass is a registered trademark of JBL Incorporated.

JBL PB 12 250W Powered Sub Amp

LINE VOLTAGE	Yes/No	Hi/Lo Line	Nom.	Unit	Notes
US 120vac/60Hz	Yes	108-132	120	Vrms	Normal Operation
EU 230vac/50-60Hz	Yes	207-264	230	Vrms	Normal operation, MOMS required

Parameter	Specification	Unit	QA Test Limits	Conditions	Notes
Amp Section					
Type (Class AB, D, other)	D	n/a	n/a		
Load Impedance (speaker)	5.6	Ohms	n/a	Nominal	
Rated Output Power	250	Watts	145	1 input driven	Peak
THD @ Rated Power	0.3	%	1	22k filter	145 Watts
THD @ 1 Watt	0.1	%	0.5	22k filter	
DC Offset	10	mV-DC	20	@ Speaker Outputs	
Damping factor	>50	DF	35	Measured at amplifier board	Measured at the speaker cable. 150 Watts @ THD < 0.1 % @ 50 Hz
Input Sensitivity					
Input Frequency	50	Hz	50	Nominal Freq.	
L&R	240	mVrms	±2dB	To 150 Watts	Single input driven
LFE input	240	mVrms	±2dB	To 150 Watts	Single input driven, LFE switch ON
Speaker/Hi Level Input	2.4	Vrms	±2dB	To 150 Watts	Single input driven
Signal to Noise					
SNR-A-Weighted	90	dBA	80	relative to rated power	A-Weighting filter
SNR-unweighted	85	dBr	80	relative to rated power	22k filter
SNR rel. 1W-unweighted	65	dBr	60	relative to 1W Output	22k filter
Residual Noise Floor	1	mVrms	2	Volume @max, using RMS reading DMM/VOM (or A/P) BW=20 Khz.	
Residual Noise Floor	1.5	mVrms(max)	2	Volume @max, w/ A/P Swept Bandpass Measurement (Line freq.+ harmonics) (BW=20 Khz)	
Input Impedance					
Line Input (L, R,LFE)	20K	ohms	n/a	Nominal	
Speaker/Hi Level Input	4.7K	ohms	n/a	Nominal	
Filters					
LP filter 4th order fixed	60-180	Hz	± 10		2nd order variable + 2nd order fix-24 db/Octave
Subsonic filter (HPF) 2nd Orde	Fixed				
LFE Low pass 2nd order	200>LP<1K	Hz		LFE input driven only	
HP speaker out connector	200	Hz	± 10	Speaker input driven - 4 Ohms	
	100	Hz	± 10	Speaker input driven - 8 Ohms	
Limiter					
THD at Max. Output Power	n/a	n/a	functional	Maximum Output Power	Maximum THD as a result of limiting.
Features	--				
Volume pot Taper (lin/log)	LOG	--	functional		A Taper
HP Speaker out	YES		functional		Refer to Filter section
Phase switch	0-180	deg	functional		
LP Filter defeat switch	YES		functional		Disables LP filter, intended for LFE
Input Configuration					
Line In (L,R) & LFE	YES	--	functional		Dual RCA jack
Spkr/Hi Level In	YES	--	functional		Binding post connector L&R
Signal Sensing (ATO)					
Auto-Turn-On (yes/no)	YES		functional		
ATO Input test frequency	50	Hz	functional	"	
ATO Level LFE Input	4	mV	functional	"	Maximum acceptable level.
ATO Level Speaker in	50	mV	functional	"	Maximum acceptable level.
ATO Turn-on time	5	ms	functional	Amp connected and AC on, then input signal applied	
Auto Mute/ Turn-OFF Time	15	minutes	15	T before muting, after signal	Auto turn of time (T) must be 5 > T < 15
Power on Delay time	3	sec.	4	AC Power Applied	
Transients/Pops					
ATO Transient	5	mV-peak	n/a	@ Speaker Outputs	
Turn-on Transient	50	mV-peak	2v-pp	@ Speaker Outputs	AC Line cycled from OFF to ON
Turn-off Transient	50	mV-peak	2v-pp	@ Speaker Outputs	AC Line cycled from ON to OFF
Efficiency					
Efficiency	65	%	64		Nominal Line voltage 120 VAC
Stand-by Input Power	24	Watts	26	@ nom. line voltage	
Power Cons. @ rated power	234	Watts	240	@ nom. line voltage	150 Watts @ 5.6 Ohms nominal line voltage
Short Circuit Protection	YES		functional	Direct short at output	Amplifier should resume operation after short
Thermal Protection	YES		functional		
DC Offset Protection	YES		-	DC present at Speaker Out leads	
Line Fuse Rating					
USA-Domestic (120v)	2	Amps		Type-T or Slo Blo-250 V	
EU (230v)	1	Amps		Type-T or Slo Blo-250 V	External fuse with UL/SEMKO rated holder

SPEAKER CONNECTION

When we designed the PB10 and PB12 powered subwoofers, our goal was to offer the user the best possible performance combined with the most flexible and complete installation options. Please look over the following three examples to determine which description best matches your system and follow the corresponding hookup instructions.

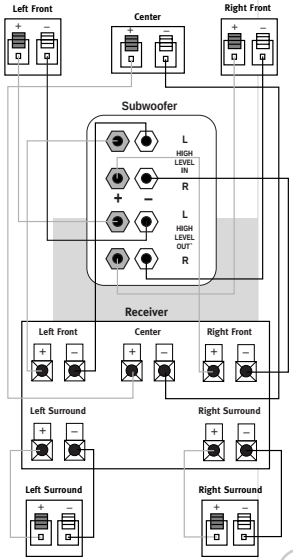
To use the binding-post speaker terminals with bare wire, unscrew the collar until the hole through the center post is visible under the collar. Insert the bare end of the wire through the hole in the post, then screw the collar back down until the connection is tight. The holes in the center of the collars are intended for banana-type connectors.

Dolby* Pro Logic* (Non-Digital) – Speaker Level

Use this installation method for Dolby Pro Logic applications (not Dolby Digital, DTS® or other digital processing), where the receiver/processor does not have a subwoofer output or a volume-controlled preamp (line-) level output:

Connect your receiver or amplifier's front left and right speaker terminals to the left and right terminals on the subwoofer that are marked "High Level In." Connect the left and right terminals on the subwoofer that are marked "High Level Out" to the corresponding terminals on the back of your front left and right speakers.

Connect your receiver or amplifier's center, left and right surround-speaker terminals to the corresponding terminals on the back of your center, left and right surround speakers.



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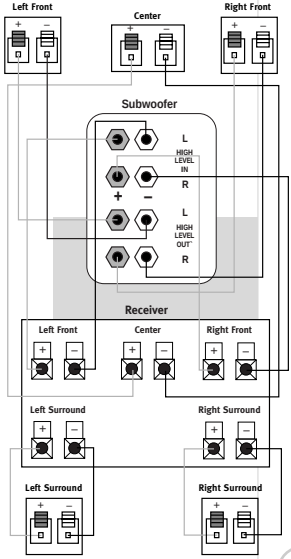
Dolby* Pro Logic* (Non-Digital) – Speaker Level

Use this installation method for Dolby Pro Logic applications (not Dolby Digital, DTS® or other digital processing), where the receiver/processor does not have a subwoofer output or a volume-controlled preamp (line-) level output:

Connect your receiver or amplifier's front left and right speaker terminals to the left and right terminals on the subwoofer that are marked "High Level In." Connect the left and right terminals on the subwoofer that are marked "High Level Out" to the corresponding terminals on the back of your front left and right speakers.

Connect your receiver or amplifier's center, left and right surround-speaker terminals to the corresponding terminals on the back of your center, left and right surround speakers.



Dolby Pro Logic (Non-Digital) – Line Level

Use this installation method for Dolby Pro Logic applications (not Dolby Digital, DTS or other digital processing), where the receiver/processor is equipped with a subwoofer output or a volume-controlled preamp (line-) level output:

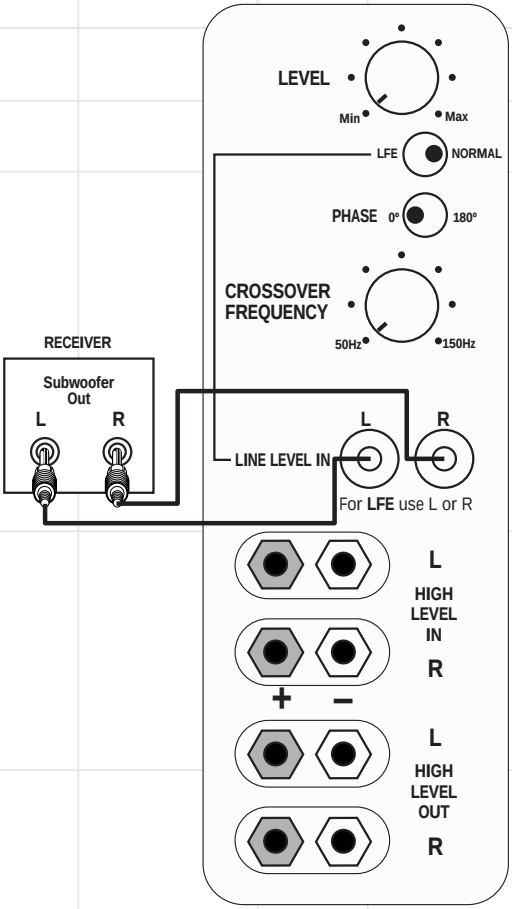
Use RCA-type patch cords to connect the line-level subwoofer outputs on your receiver or amplifier to the line-level inputs on the subwoofer. IMPORTANT: Make sure that the LFE toggle switch on the subwoofer is in the "Normal" position. Do not use the "LFE" position with Dolby Pro Logic-only processors.

Note: If your receiver or amplifier only has one subwoofer output jack, then you may connect the subwoofer output on your receiver/preamplifier to either the left or right line-level input on the subwoofer. It makes no difference which jack you choose.

Connect each speaker to the corresponding speaker terminals on your receiver or amplifier.

Make sure your receiver or processor is configured correctly: Make sure that the subwoofer is configured as "On."

Note for advanced users: If your receiver/processor has a built-in low-pass crossover filter for the subwoofer output, then the LFE switch should be set to the "LFE" position to bypass the subwoofer's internal crossover.



Dolby Digital or DTS (or Other Digital Surround Mode) Connection

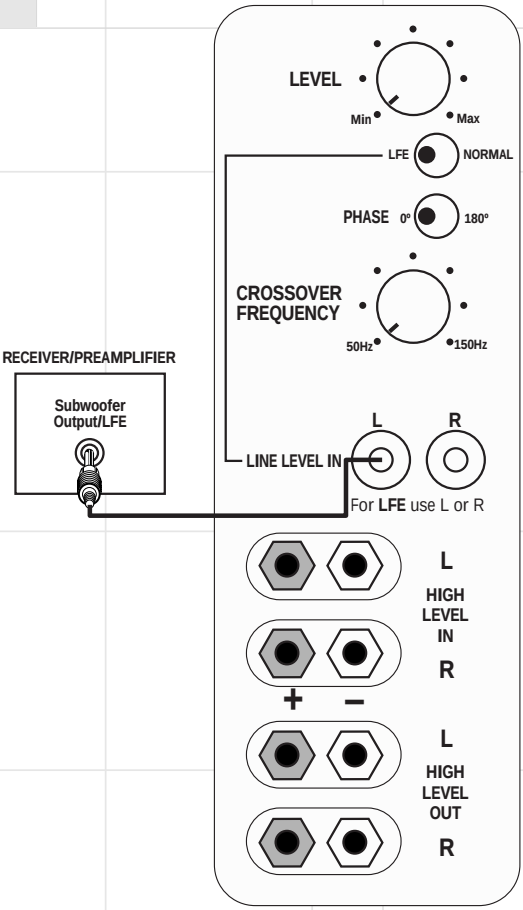
Use this installation method for Dolby Digital, DTS or other digital surround processors:

IMPORTANT: Make sure that the LFE toggle switch on the subwoofer is in the "LFE" position. Use the line-level input jacks for the Low-Frequency Effects channel. Connect these jacks to the LFE output or subwoofer output on your receiver or amplifier.

Note: If your receiver or amplifier only has one subwoofer output jack, then you may connect the subwoofer output on your receiver/preamplifier to either the left or right line-level input on the subwoofer. It makes no difference which jack you choose.

Connect each speaker to the corresponding speaker terminals on your receiver or amplifier.

Make sure that you have configured your surround-sound processor for "Subwoofer On" or "LFE On." The front left, front right, center and rear speakers should be set to "Small" or "Large" depending on their size and frequency response. Consult your receiver's or processor's owner's manual.



OPERATION

Power

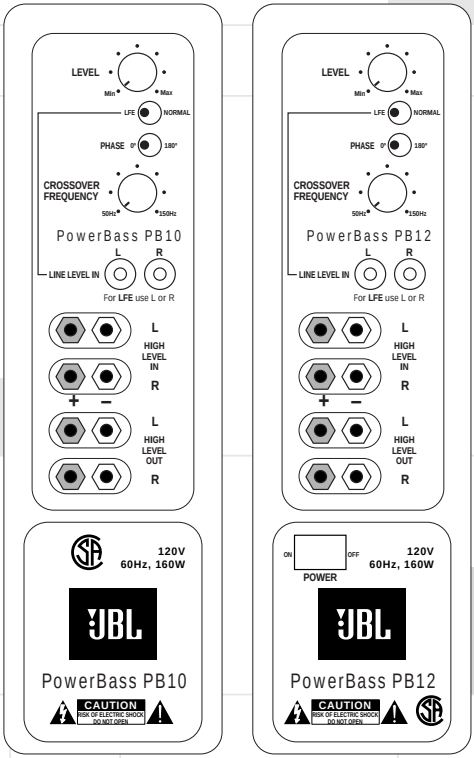
When the unit is plugged in and (for the PB12 only) the power switch is on and no signal is received, the LEDs on the front of the unit will turn red. When a signal is present, the LEDs will turn green. Note: It will take several minutes for the LEDs to turn from green to red after the input signal to the subwoofer is removed. Due to JBL's unique, high-output, high-efficiency amplifier design, power consumption is minimal when the subwoofer is not receiving a signal. Of course, the PB12 subwoofer can be turned off, whenever desired. The PB10 must be unplugged if you do not wish to leave it in auto (standby) mode.

Level Control

The subwoofer Level Control adjusts the volume of the subwoofer relative to the rest of the system. Proper level adjustment depends on several variables such as room size, subwoofer placement, type of main speakers and listener position. Adjust the subwoofer level so that the volume of the bass information is pleasing to you.

Crossover Adjustments

The Crossover Frequency Control determines the highest frequency at which the subwoofer reproduces sounds. If your main speakers can comfortably reproduce some low-frequency sounds, set this control to a lower frequency setting, between 50Hz – 100Hz. This will concentrate the subwoofer's efforts on the ultradeep bass sounds required by today's films and music. If you are using smaller bookshelf speakers that do not extend to the lower bass frequencies, set the low-pass crossover control to a higher setting, between 120Hz – 150Hz. This control is not used when the LFE switch is in the "LFE" position.



Phase Control

Phase

The Phase Control determines whether the subwoofer's piston-like action moves in and out in phase with the main speakers or opposite the main speakers. There is no correct or incorrect setting. Proper phase adjustment depends on several variables such as subwoofer placement and listener position. Adjust the phase switch to maximize bass output at the listening position.

Remember, every system, room and listener is different. There are no right or wrong settings; this switch offers the added flexibility to adjust your subwoofer for optimum performance for your specific listening conditions without having to move your speakers. If at some time in the future you happen to rearrange your listening room and move your speakers, you should experiment with the phase switch in both positions, and leave it in the position that maximizes bass performance.

TROUBLESHOOTING

If you used the high-level (speaker) inputs and there is no sound from any of the speakers:

• Check that receiver/amplifier is on and a source is playing.
• Check that powered subwoofer is plugged into an active electrical outlet and is switched on.
• Check all wires and connections between receiver/amplifier and speakers. Make sure all wires are connected. Make sure none of the speaker wires are frayed, cut or punctured.
• Review proper operation of your receiver/amplifier.

If there is low (or no) bass output:

• Make sure the connections to the left and right "Speaker Inputs" have the correct polarity (+ and –).
• Make sure that the subwoofer is plugged into an active electrical outlet and (PB12 only) switched on.
• Adjust the crossover point.
• Flip the Phase Control switch to the opposite position.
• If you are using a Dolby Digital/DTS receiver or processor, make sure that the subwoofer adjustments on the receiver/processor are set up correctly.
• Slowly turn the Level Control clockwise until you begin to hear the desired amount of bass.

If you used the line-level inputs and there is no sound from the subwoofer:

• Check that receiver/amplifier is on and a source is playing.
• Check that powered subwoofer is plugged into an active electrical outlet and is switched on.
• Check all wires and connections between receiver/amplifier and subwoofer. Make sure all wires are connected. Make sure none of the wires are frayed, cut or punctured.
• Review proper operation of your receiver/amplifier.
• Slowly turn the Level Control clockwise until you begin to hear the desired amount of bass.
• Make sure that you have configured your receiver/processor so that the subwoofer/LFE output is on.

Electrical Parts List - PB12

PB12 POWERAMP PCB Version 6.3.

Part#	Designator	Description			
50100	BR RECT	RS604	6AMP		Bridge rectifier
50105	D1	1N4744A	15V		1w Zener
50112	D10	1N5242B	12V		.5w Zener
50104	D11	1N4148			Sig Diode
50112	D12	1N5242B	12V		.5w Zener
50104	D13	1N4148			Sig Diode
50104	D14	1N4148			Sig Diode
50105	D2	1N4744A	15V		1w Zener
50114	D3	1N5265B	62V		.5w Zener
50104	D4	1N4148			Sig Diode
50113	D5	1N4735A	6.2V		1W
50103	D6	1N5234B	6V		.5w Zener
50104	D7	1N4148			Sig Diode
50104	D8	1N4148			Sig Diode
60157	Q1	2N5457	25V		N-chnl FET
60155	Q10	2N5401	120V		PNP 600mA
60155	Q11	2N5401	120V		PNP 600mA
60156	Q12	2N4401	40V		NPN 600mA
60102	U1	TLO64			Quad OpAmp
Capacitors					
30710	C1	2200uF	100V	+80 / -20	Electrolytic 105C
30718	C10	4u7F	100V		**BP/NP Electr DF<.1**
30523	C11	330nF	100V		mono ceramic
30710	C2	2200uF	100V	+80 / -20	Electrolytic 105C
30532	C20	220nF	250V		metallized polyester
30502	C21	100nF	50V		mono ceramic
30502	C22	100nF	50V		mono ceramic
30527	C24	330nF	50V		mono ceramic
	C25	NOT USED			
30508	C26	10nF	50V		mono ceramic
30513	C27	3n3F	50V		mono ceramic
30502	C3	100nF	50V		mono ceramic
30711	C32	22uF	35V	+80/-20	Electrolytic
30715	C40	10uF	16V	+80/-20	Electrolytic
30716	C41	1uF	16V	+80/-20	Electrolytic
30717	C42	100uF	16V	+80/-20	Electrolytic
30502	C6	100nF	50V		mono ceramic
30521	C7A	100nF	250V		ceramic/film
30521	C7B	100nF	250V		ceramic/film
	CW	NOT USED			
30505	CZ	100nF	100V		ceramic/film

Part#	Designator	Description		
Resistors				
	R100	NOT USED		
40105	R10A	0.1R	.5W	metal
40105	R10B	0.1R	.5W	metal
40105	R10C	0.1R	.5W	metal
40420	R11	1k	.25W	carbon
40420	R12	1k	.25W	carbon
40417	R13	47k	.25W	carbon
40718	R14	3k3	.25W	carbon
	R15	NOT USED		
40735	R1A	7k5	2W	metal
40735	R1B	7k5	2W	metal
40735	R1C	7k5	2W	metal
40405	R21	4K7	.25W	carbon
40736	R22	42K2	.25W	metal
40737	R23	187k	.25W	metal
	R24	NOT USED		
	R25	NOT USED		
40722	R26	6k8	.25W	carbon
40738	R27	10k	2W	metal
40739	R28	1k2	0.25W	carbon
40739	R29	1k2	0.25W	carbon
40735	R2A	7k5	2W	metal
40735	R2B	7k5	2W	metal
40735	R2C	7k5	2W	metal
40703	R3	8M2	.25W	carbon
40738	R30	10k	2W	metal
40417	R31	47k	.25W	carbon
40417	R32	47k	.25W	carbon
40427	R33	23k7	.25W	metal
40403	R34	10k	.25W	metal
40740	R4	33k	1W	metal
40420	R40	1k	.25W	carbon
40701	R41	1000k	.25W	carbon
40741	R42	22k	.5W	metal
40701	R43	1000k	.25W	carbon
40406	R44	100k	.25W	carbon
40415	R45	470K	.25W	carbon
40701	R46	1000k	.25W	carbon
40409	R47	10k	.25W	carbon
40409	R48	10k	.25W	carbon
40726	R49	15k	.25W	carbon
40732	R5	56k2	.25W	metal
40727	R50	2k2	.25W	carbon
40111	R6	47R	.25W	carbon
40738	R7A	10k	2W	metal

Part#	Designator	Description		
40738	R7B	10k	2W	metal
40738	R7C	10k	2W	metal
40738	R8A	10k	2W	metal
40738	R8B	10k	2W	metal
	R9	NOT USED		

Miscellaneous

80121	L1	220uH	5 Amp	Gapped Ecore choke
80122	L2	8u5H	5 Amp	ferrite bead
80122	L3	8u5H	5 Amp	ferrite bead
80122	L4	8u5H	5 Amp	ferrite bead
80100	CMC	2m2H	5 Amp	choke
60302	MODULE	S64AMI		
108326	Led Harness	With two LED's,M	Glued into cabinet	
80116	Transformer	MCI4632	100VA	4632 transformer
70151	Switch	SW SPST		Power Switch
70322	LED socket			PCB mount LED socket
80117	3AG FUSE			2A SloBlo T type
70324	0.187" PCB Tabs	7		
70323	PCB Fuse Holders	2		
70325	PB12 faceplate			PB12 faceplate
80105	Power cord			Power cord
70305	Strain relief			Strain relief

PB12 PREAMP PCB Version #6.3

Part#	Designator	Description		

Semiconductors

60102	U1	TLO 64		OP amp
60100	U2	LM324		OP amp

Capacitors **Film Caps may be used in any position EXCEPT C1,C2**

30707	C1	200uF	50V	BP Electrolytic
30504	C10	100nF	50V	mono ceramic
30504	C11	100nF	50V	mono ceramic
30504	C12	100nF	50V	mono ceramic
30504	C13	100nF	50V	mono ceramic
30530	C16	100nF	50V	mono ceramic
30531	C17	150nF	50V	mono ceramic
30100	C18	330pF	50V	mono ceramic
30100	C19	330pF	50V	mono ceramic
30707	C2	200uF	50V	BP Electrolytic
30502	C20	100nF	50V	mono ceramic

Part#	Designator	Description		
30502	C21	100nF	50V	mono ceramic
30502	C22	100nF	50V	mono ceramic
30502	C23	100nF	50V	mono ceramic
30101	C3	220pF	50V	mono ceramic
	C30	NOT USED		
30101	C4	220pF	50V	mono ceramic
30101	C5	220pF	50V	mono ceramic
30101	C6	220p	50V	mono ceramic
	C7	0r		
	C8	0r		
40730	C9	1k	.25W	Metal Resistor

Resistors

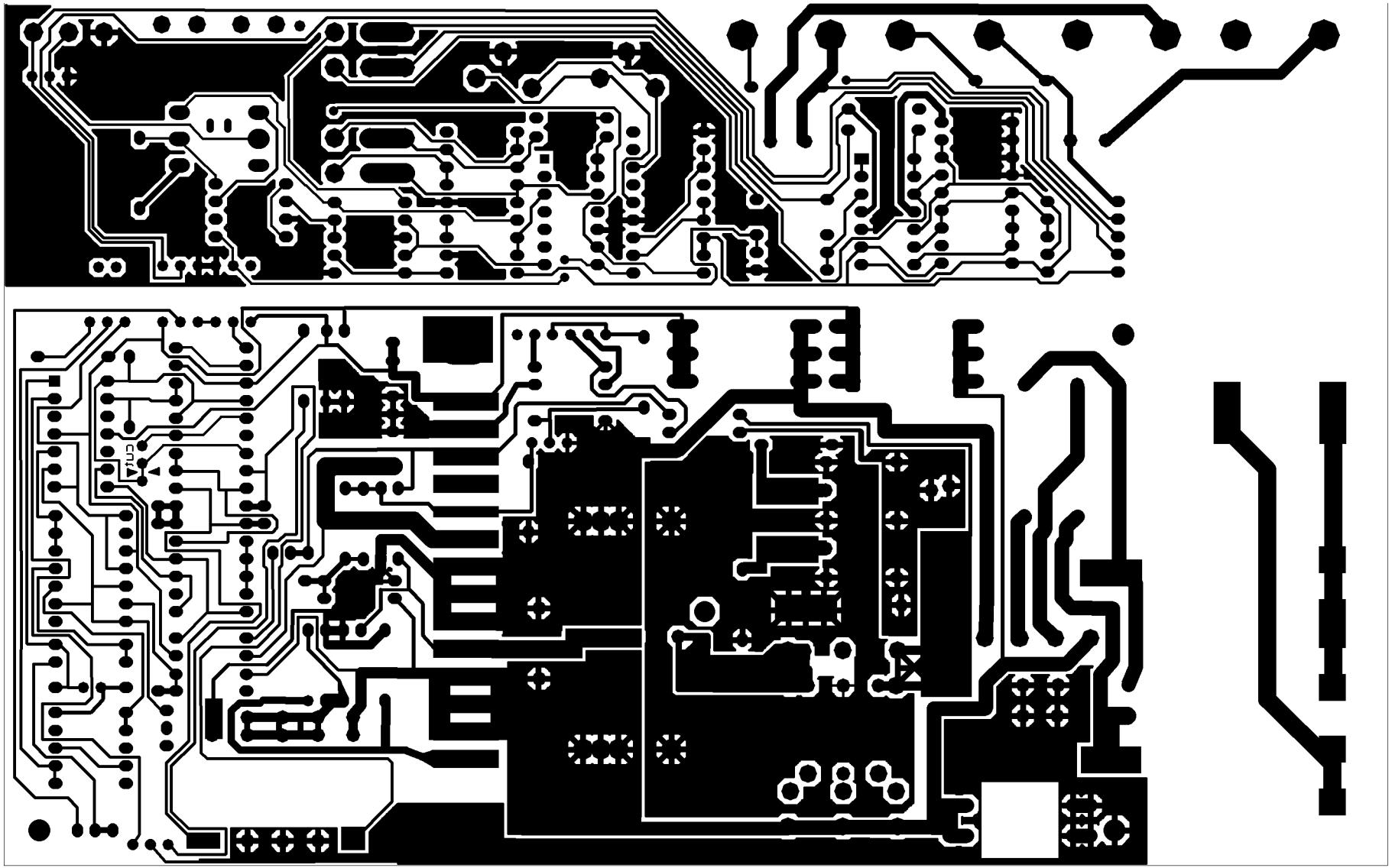
40405	R1	4k7	.25W	carbon
40409	R10	10k	.25W	carbon
40731	R11	59k	.25W	carbon
40504	R12	45k3	.25W	metal
40412	R13	33k2	.25W	metal
40709	R14	68k1	.25W	metal
	R15	NOT USED		
	R16	NOT USED		
40732	R17	56k2	.25W	metal
40722	R18	6k8	.25W	carbon
40722	R19	6k8	.25W	carbon
40405	R2	4k7	.25W	carbon
40722	R20	6k8	.25W	carbon
	R21	0r		
40722	R22	6k8	.25W	carbon
	R23	0r		
40109	R24	604r	.25W	metal
40412	R25	33k2	.25W	metal
40405	R26	4k7	.25W	metal
40109	R27	604r	.25W	metal
40412	R28	33k2	.25W	metal
40406	R3	100k	.25W	carbon
40403	R30	10k	.25W	metal
40733	R33	12k1	.25W	metal
40734	R34	120k	.25W	metal
40451	R35	137k	.25W	metal
40406	R4	100k	.25W	carbon
40406	R5	100k	.25W	carbon
40406	R6	100k	.25W	carbon
40717	R8	2k7	.25W	carbon
40717	R9	2k7	.25W	carbon

Miscellaneous

108320	RCA CONNECTOR			DUAL RCA-yellow
108116	HI LEVEL I/O	Binding Post	OUT	Binding Post
108116	HI LEVEL I/O	Binding Post	IN	Binding Post
40402	LEVEL	5k POT		Log (A) Pot
40707	Crossover CONTROL	20k POT		Lin (B) Pot.
70150	LFE switch	SW SPDT		mini-Toggle
70150	Phase Switch	SW SPDT		mini-Toggle

PB12 MECHANICAL & PACKING PARTS LIST

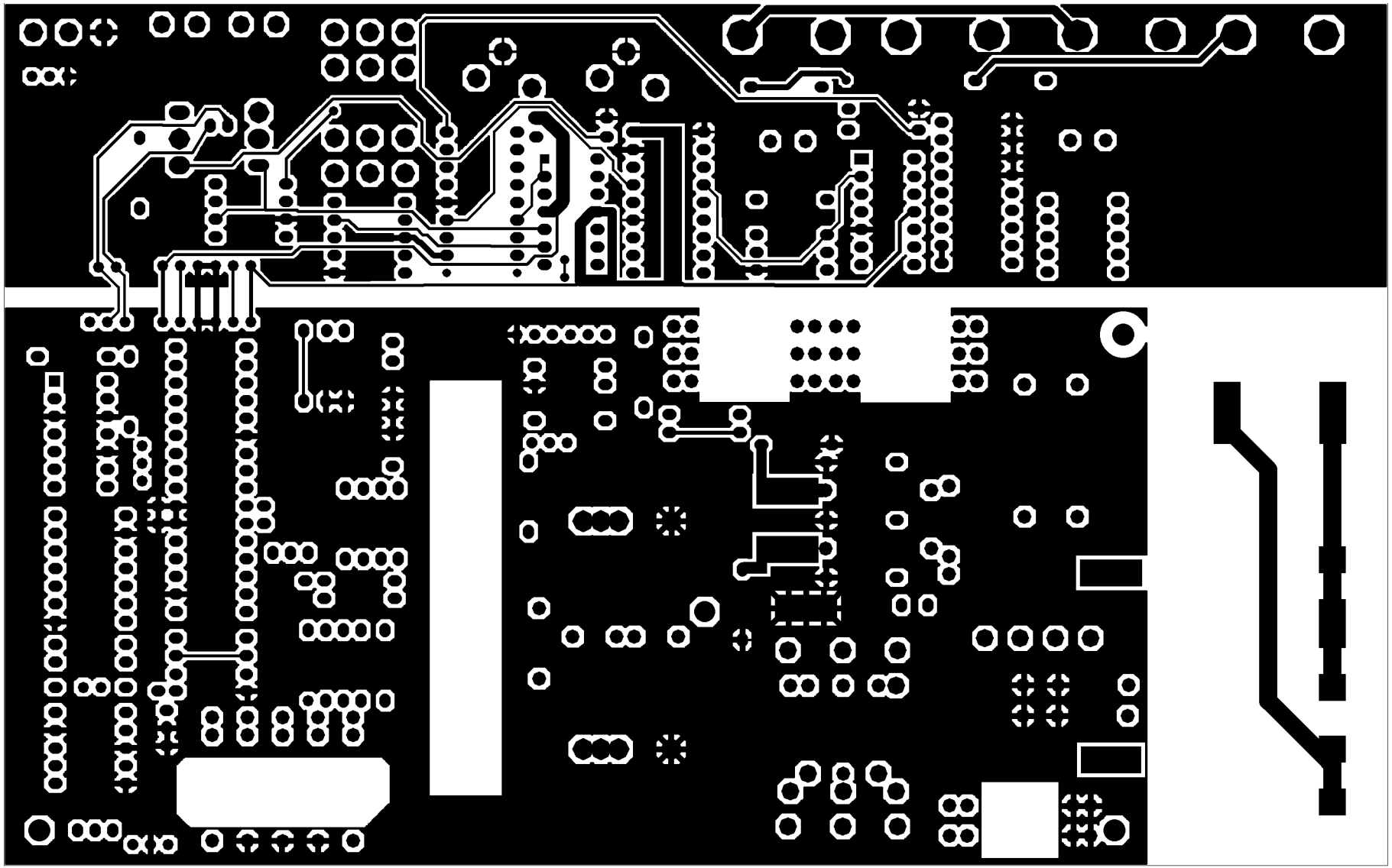
Part#	Description
203500	12” Woofer
203410	Foot
203520	Outer Carton
203430	Owner’s manual 120V
203550	Amplifier complete



SOLDERSIDE

.125 holes NOT thru-plated

FANCY Version 6.3

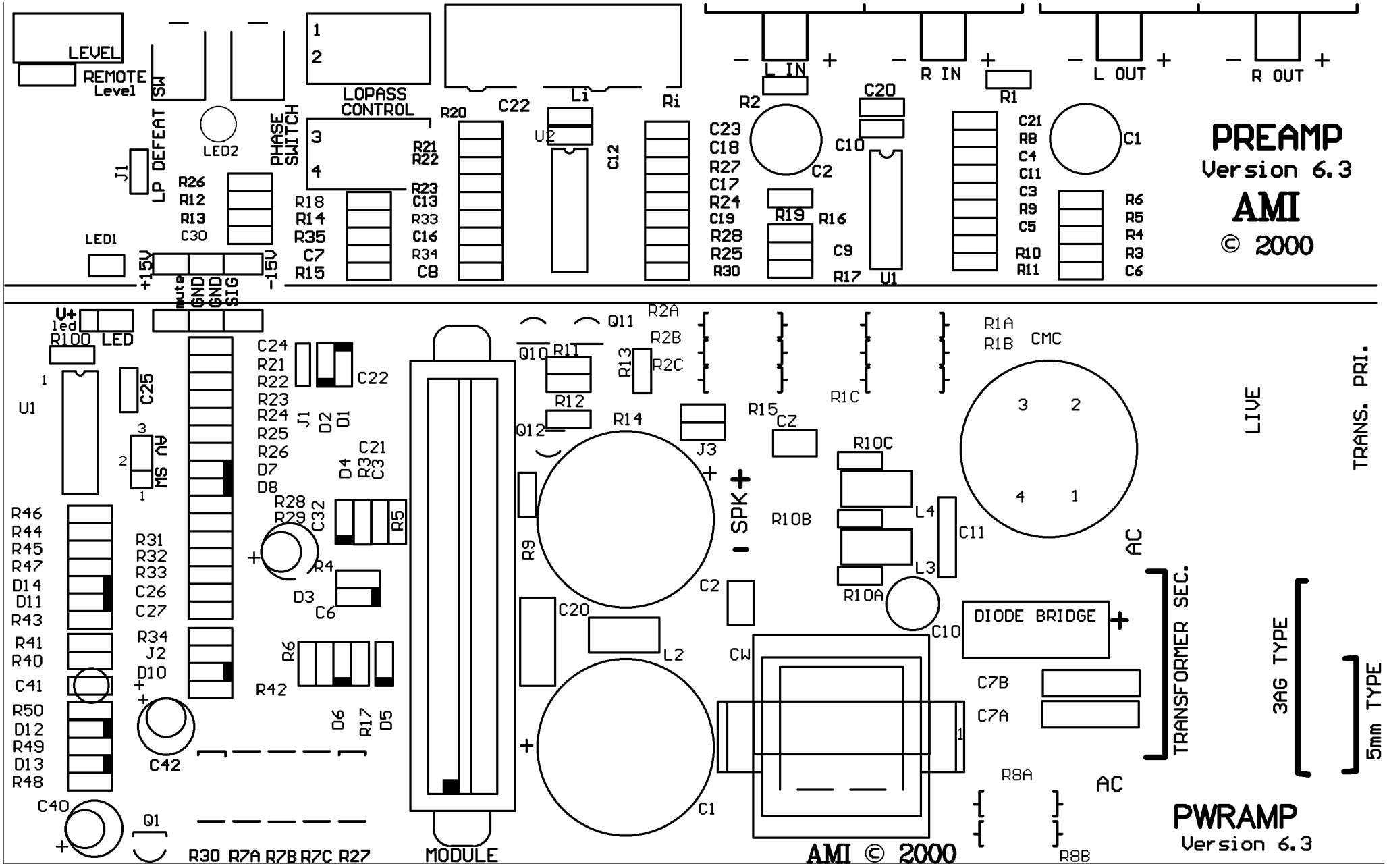


COMP SIDE

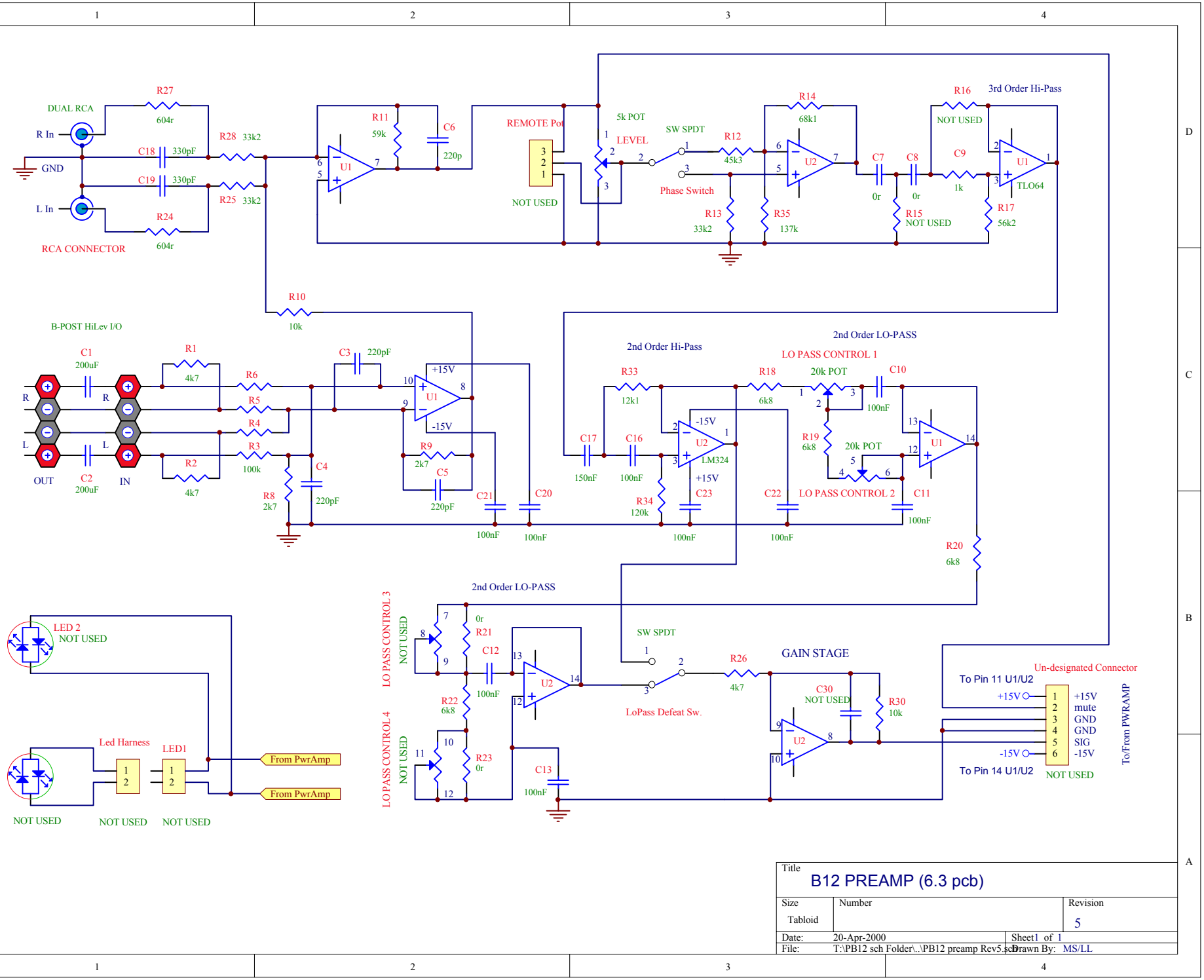
.125 holes NOT thru-plated

FANCY Version 6.3

Vers63.gto (Board layer 1) Scale=1.36 Wed May 17 08:38:34 2000



SILKSCREEN



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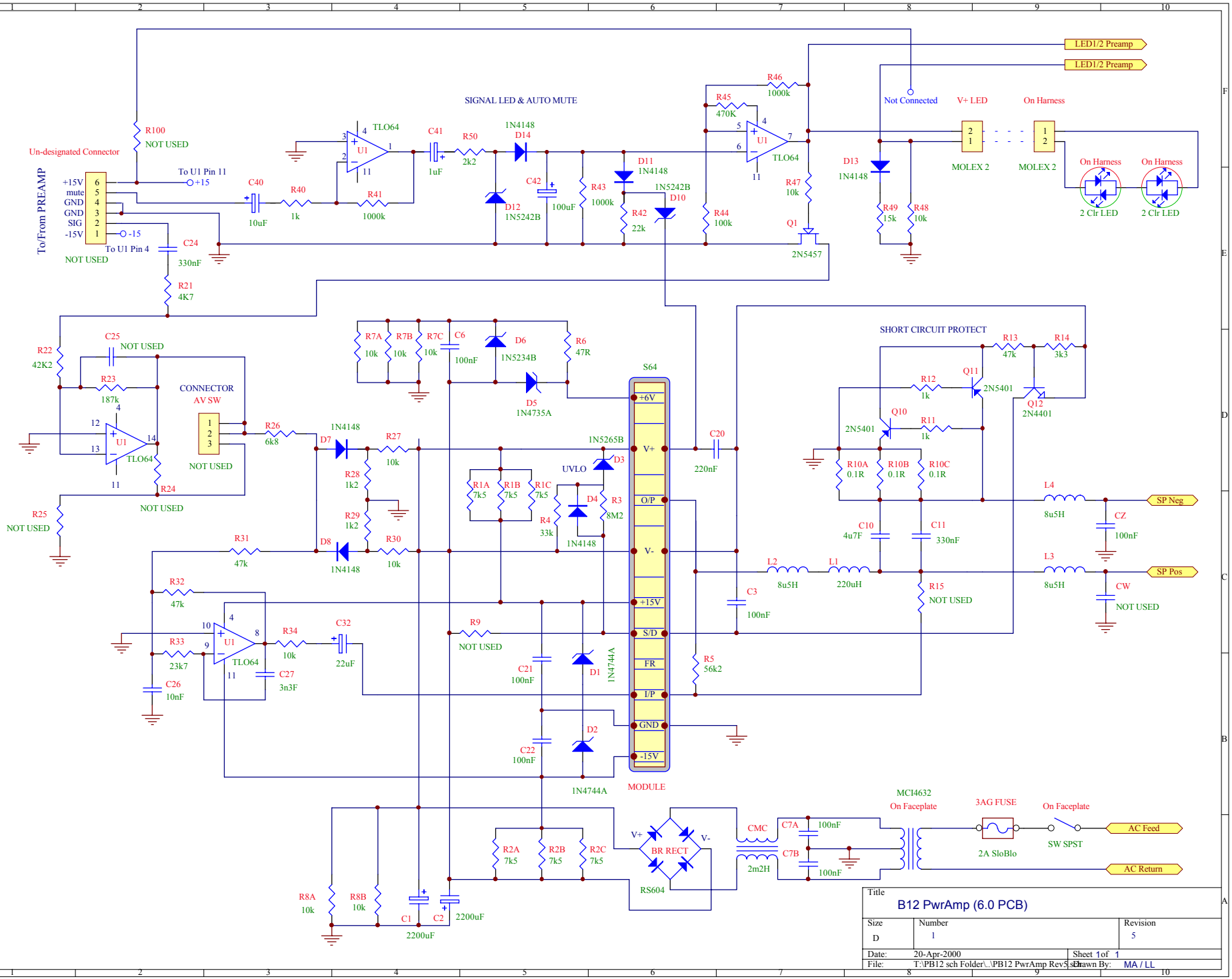
Size: Tabloid	Number	Revision: 5
Date: 20-Apr-2000		Sheet 1 of 1
File: T:\PB12 sch Folder\..\PB12 preamp Rev5.sch		Drawn By: MS/LL


SIGNAL LED & AUTO MUTE
SHORT CIRCUIT PROTECT
Un-designated Connector
To/From PREAMP
+15V
mute
GND
GND
SIG
-15V
To U1 Pin 11
+15
-15
To U1 Pin 4
NOT USED
R100
NOT USED
C24
330nF
R21
4K7
C40
10uF
R40
1k
R41
1000k
TLO64
U1
C41
1uF
R50
2k2
1N4148
D14
D12
1N5242B
C42
100uF
R43
1000k
D11
1N4148
1N5242B
D10
R42
22k
R44
100k
R45
470K
R46
1000k
R47
10k
Q1
2N5457
D13
1N4148
R49
15k
R48
10k
Not Connected
V+ LED
On Harness
MOLEX 2
MOLEX 2
On Harness
On Harness
2 Clr LED
2 Clr LED
LED1/2 Preamp
LED1/2 Preamp
R22
42K2
C25
NOT USED
R23
187k
CONNECTOR
AV SW
R26
6k8
NOT USED
R24
NOT USED
R25
NOT USED
R7A
10k
R7B
10k
R7C
10k
C6
100nF
D6
1N5234B
D5
1N4735A
R6
47R
D7
1N4148
R27
10k
R28
1k2
R29
1k2
D8
1N4148
R30
10k
R31
47k
S64
+6V
V+
O/P
V-
+15V
S/D
FR
I/P
GND
-15V
MODULE
1N5265B
D3
UVLO
R1A
7k5
R1B
7k5
R1C
7k5
R4
33k
D4
1N4148
R3
8M2
C20
220nF
R12
1k
Q11
2N5401
R13
47k
R14
3k3
Q12
2N4401
Q10
2N5401
R11
1k
R10A
0.1R
R10B
0.1R
R10C
0.1R
L4
8u5H
SP Neg
CZ
100nF
C10
4u7F
C11
330nF
L2
8u5H
L1
220uH
L3
8u5H
SP Pos
CW
NOT USED
R15
NOT USED
C3
100nF
R32
47k
R33
23k7
C26
10nF
R34
10k
C32
22uF
C27
3n3F
R9
NOT USED
C21
100nF
D1
1N4744A
R5
56k2
C22
100nF
D2
1N4744A
R8A
10k
R8B
10k
C1
2200uF
C2
2200uF
R2A
7k5
R2B
7k5
R2C
7k5
V+
V-
BR RECT
RS604
CMC
2m2H
C7A
100nF
C7B
100nF
MCI4632
On Faceplate
3AG FUSE
2A SloBlo
On Faceplate
SW SPST
AC Feed
AC Return
Title
B12 PwrAmp (6.0 PCB)
Size
D
Number
1
Revision
5
Date:
20-Apr-2000
Sheet 1 of 1
File:
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Drawn By:
MA / LL